

Flood protection roller shutter

At the show Frontale/Fensterbau 2024 in Nuremberg, the German company SECURITEAM is presenting the first roller shutter worldwide which automatically protects from flood and intruding water. The startup-enterprise has developed this new product called "AQUARIS" and was already awarded with an innovation prize by the state of Rheinland Pfalz. The main advantage of this product, which cannot only be used in domestic and commercial shutters but also in industrial and garage doors, is that it operates automatically and requires no additional action. Hence it can be controlled by sensors and can be operated by remote controls as well as through smart-home-apps via mobile phone – even if the user is absent.

The target is to integrate this new product into existing products in the market, such as roller shutters, doors and sun protection. One option is i.e. to fit a section of the flood protection roller shutter in the lower part of an opening while the upper part is covered by a standard roller shutter, a grill or even a fabric providing sun protection. A very attractive option is to combine the AQUARIS section with an INOX-mesh in the upper section which provides both security and sun protection while at the meantime allows light and air to penetrate.

In addition to the AQUARIS roller shutter, Securiteam is presenting a manual flood protection system branded "AQUA-Shield". This solution which derives from the AQUARIS principle function, is inserted into guide rails by the user manually and offers an easy and affordable alternative.

Additional information

The new product is based on an invention by the founder of Securiteam, Mr. Friedrich Karl Rinn. "As a matter of fact I had invented a security shutter which cannot be pushed up from outside. This is based on only a very little change on conventional roller shutters which would allow additional benefit for any standard roller shutter without raising the cost of the product. Also, shutters would become more resistant against wind", says Mr. Rinn. "I had the idea of making a flood protection shutter by simply reversing the principle function of my original invention while I was swimming – and this only four weeks prior to the devastating floods in Germany in 2021". The invention is pretty old, however only a recent cooperation with the University of Mainz (Germany), supported by the Government of the state of Rheinland Pfalz, made it possible to file the patent and bring forward the development of the product.

About Securiteam:

The Securiteam GmbH was set up in 2020 by Mr. Friedrich Karl Rinn. As the name indicates, Securiteam is dedicated to develop, manufacture and supply security products. The business started with importing and distributing security grills and retractable doors from Greece (tested and certificated in resistance class RC2). Another activity is the distribution of a special battery based control system for roller shutter which will open a roller shutter in case of emergency, particularly in case of fire and even during a power blackout. Flood protection is a new field of activity which perfectly fits into the philosophy of offering security and safety to the markets.